

* Automatic Lid *

Ship Aug 4

Work Order ID 163769

163769

Page 1

Friday, July 07, 2017 3:43:11 PM

Item ID: D350-607-043A

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

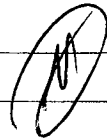
Start Date: 7/25/2017 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 8/4/2017 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan:  Date: JUL 07 2017 Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
DSI9709	A								
IIN-D350-607-1	A								

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPPD350-607-043A CHG002								

DAS
28
9-89
AUG 03 2017

110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									

DAS
6
9-89
AUG 01 2017

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 163769

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163769

Page 2

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Required Date: 8/4/2017 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120		0.00							
120	Small Fab								
Small Fab	Memo	1.18							
Small Fab	Assemble as per Dwg D350-607								
	Seal Support Gusset with Sikaflex -291								
	Batch: <u>M11376947</u>								
	Exp Date: <u>10/07</u>								
130	QC5- Inspect part completeness to step on W/O	0.00							
130									
QC	Memo	0.02							
Quality Control									
140	Pick Kit	0.00							
140									
Packaging	Memo	0.00							
Packaging									

DAS
38
9-89
AUG 02 2017DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 163769

Friday, July 07, 2017 3:43:11 PM

163769

Page 3

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	QC4- 100% Inspect kits for completeness	0.00							
150									
QC	Memo	0.03							
Quality Control									
160	Identify as per dwg & Stock Location: <u>Fg</u>	0.00							
160	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D350-607-043A Location: _____								
170	QC21- Final Inspection - Work Order Release	0.00							
170									
QC	Memo	0.10							
Quality Control									

DAS
28
9-89

AUG 03 2017

DAS
28
9-89

AUG 04 2017

17/8/8

(Signature)

AUG 04 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 1

Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP RevB: as per dwg revC DD 10.01.18 verified by:EC IPP rev:C as per ecn10-545 DD 10.04.19 verified by:EC
IPP Rev:D 10.10.18 remove D350-607-143 and added individual parts of D350-607-143 in DD verf:JLM IPP REV:E 12.07.24 AS
PER ECN 12-603 DD VERF:EC IPP REV:F 13.08.07 UPDATED
BOM DD VERF:JLM IPP REV:G 15.01.06 AS PER
DSI9709REV.A DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN310-4		Purchased	No			110	Each	93.0000	2	2			
AN310-4									**			DAS 6 AUG 01 2017 9-89	
Nut													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				GA				25					
				M127815				25					
				ST331				68					
				M137361				18					
				<u>M137735</u>				50					
AN3C11A		Purchased	No			110	Each	24.0000	2	2			
AN3C11A									**			DAS 6 AUG 01 2017 9-89	
BOLT													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST349				24					
				M132035				24					
AN3C15A		Purchased	No			110	Each	24.0000	2	2			
AN3C15A									**			DAS 6 AUG 01 2017 9-89	
Bolt													
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST348				24					
				<u>M125374</u>				24					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 2

Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

AN4-15A

Purchased

No

140

Each

118.0000

4

4

AN4-15A

Bolt

**

DAS
6

AUG 01 2017

Location

Loc Qty

Loc Code

GA

10

120449

10

ST343

108

m137587

8

m137820

100

4

D2728-3

Manufactured

Yes

110

Each

0.0000

1

1

D2728-3

Dart Logo Label Large

D3953-11

Manufactured

No

110

Each

18.0000

1

1

D3953-11

Gas Spring Spacer

**

DAS
6

AUG 01 2017

9-89

Location

Loc Qty

Loc Code

ST060

18

105464

18

D3953-15

Manufactured

No

110

Each

16.0000

1

1

D3953-15

Gas Spring Bracket

**

DAS
6

AUG 01 2017

9-89

Location

Loc Qty

Loc Code

ST060

16

99186

16

D3953-17

Manufactured

No

110

Each

11.0000

1

1

D3953-17

Gas Spring Spacer

**

DAS
6

AUG 01 2017

9-89

Location

Loc Qty

Loc Code

ST060

11

159089

11

Friday, July 07, 2017 3:43:09 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Picklist Print

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

D3953-3 Manufactured No

110 Each 69.0000 1 1

D3953-3

Gas Spring Stud, Lid

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST060

9

158669

9

ST60A

60

160625

60

D3953-5 Manufactured No

110 Each 7.0000 1 1

D3953-5

Gas Spring Stud, Base

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST060

7

124030

1

149558

6

D3953-7 Manufactured No

110 Each 45.0000 1 1

D3953-7

Spring Spacer

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST060

19

154160

19

ST064A

26

155761

26

D3953-9 Manufactured No

110 Each 64.0000 2 2

D3953-9

Gas Spring Washer

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST060

64

158715

17

161969

47

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Shop Packet Print

Page 3

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐		Power Loss/Surge ☐	Positioned Wrong ☐																
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Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐	Part Lost/Missing ☐																
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐		Out of Sequence ☐	Part Moved ☐																
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐		Off-set ☐	Drawing ☐																
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐	Finish ☐																
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐	Misread ☐																
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐	Turning Sequence ☐																
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐																					
Misidentified ☐		Past Due ☐																							

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

D3969-1

Manufactured No

110

Each

13.0000

1

1

D3969-1

Spring (Basket Lid)

**

DAS

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST364

13

141700

1

149668

6

160155

6

MS21043-3

Purchased

No

110

Each

596.0000

4

4

MS21043-3

Nut

**

DAS

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

FG

80

103691

80

FP001

119

m136182

119

GA

84

m136182

84

ST302

313

m137459

13

m137587

300

MS24665-2-12

Purchased

No

110

Each

154.0000

2

2

MS24665-2-12

COTTER PIN

**

DAS

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST289

154

125044

154

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0332R

Purchased

No

110

Each

4,892.000

4

4

NAS1149C0332R

WASHER

**

DAS
6
AUG 01 2017
9-89

Location

Loc Qty

Loc Code

FP001

566

m137597

566

GA

508

m133284

22

m136444

486

ST260a

3000

m135408

0

m136741

0

m137851

2000

m137951

1000

ST266

818

m137381

818

NAS1149C0432R

Purchased

No

110

Each

1,153.000

2

2

NAS1149C0432R

WASHER

**

DAS
6
AUG 01 2017
9-89

Location

Loc Qty

Loc Code

GA

341

m134676

341

ST266

812

m137459

812

D350-607-241

Manufactured

No

140

Each

2.0000

1

D350-607-241

AS350/355 Basket Mounting System

**

DAS
6
9-89

AUG 03 2017

Location

Loc Qty

Loc Code

ST366

2

162246

2

DAS
28
9-89

DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : ☐						
Misidentified ☐	☐	Past Due ☐							

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

D2221 Manufactured No

110 Each

0.0000

1

1

D2221

Basket Base Assembly

D2258-200

Manufactured No

110 Each

6.0000

1

1

D2258-200

Weight Placard 200lb

Location

Loc Qty

Loc Code

ST005

6

156728

6

2/22/2018

D2530 Manufactured No

110 Each

24.0000

1

1

D2530

Handle Weldment

Location

Loc Qty

Loc Code

ST379

24

158819

6

159774

8

160709

10

D2535 Manufactured No

110 Each

67.0000

2

2

D2535

Spring

Location

Loc Qty

Loc Code

ST008

67

158095

17

160128

25

162926

25

D2537 Manufactured No

110 Each

49.0000

2

2

D2537

Bushing

Location

Loc Qty

Loc Code

ST008

49

161757

49

B163770 C12) All 16080

DAS
6 AUG 01 2017
9-89

DAS
6 AUG 01 2017
9-89

DAS
6 AUG 01 2017
9-89

AUG 01 2017

DAS
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

D2931

Manufactured No

110

Each

1,278.000

2

2

D2931

Bumper

**

DAS

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST013

178

86435

178

ST025A

1100

86435

1100

2

D2989-041

Manufactured No

110

Each

0.0000

1

1

D2989-041

Basket Lid

**

B 163771 (w/ all w/o of 01

D2989-043

Manufactured No

110

Each

0.0000

1

1

D2989-043

Basket Lid Aft

**

B 163772 (x1) all w/o of 01

AN3-16A

Purchased No

110

Each

81.0000

2

2

AN3-16A

Bolt

**

DAS

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

GA

37

117441

37

ST348

44

M137699

44

2

D2022-101

5X 159300

DAS

6

9-89

AUG 01 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

AN4-13A Purchased No 170 Each 310.0000 2 2

AN4-13A

Bolt

**

AUG 03 2017

DAS

6
9-89

Location Loc Qty Loc Code

FG 20

122808 20

GA 68

m134634 19

m135470 49

ST344 222

m137544 2

m137886 220

AN4-22A Purchased No 110 Each 50.0000 5 5

AN4-22A

Bolt

**

DAS

6
9-89

AUG 01 2017

Location Loc Qty Loc Code

over003 20

m137951 20

ST344 30

116419 30

AN5-17A Purchased No 110 Each 130.0000 4 4

AN5-17A

Bolt

**

DAS

6
9-89

AUG 01 2017

Location Loc Qty Loc Code

GA 20

117872 20

over003 75

m137710 75

ST337 35

m137412 35

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		FAULT CATEGORY Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
				OTHER :							

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

MS20600-AD4W3

Purchased

No

110

Each

416.0000

2

2

MS20600-AD4W3

Cherry Rivet

**

DAS
6
9-89
AUG 01 2017

Location

Loc Qty

Loc Code

ST308

84

m135603

84

WA003

332

m136648

32

m137412

300

NAS1149D0463J

Purchased

No

110

Each

2,991.000

14

14

NAS1149D0463.J

Washer

**

DAS
6
9-89
AUG 01 2017

Location

Loc Qty

Loc Code

GA

640

M135056

40

M137699

600

ST260a

1400

M137699

1400

ST263

951

M137371

951

NAS1149D0563J

Purchased

No

110

Each

1,432.000

4

4

NAS1149D0563.J

Washer

**

DAS
6
9-89
AUG 01 2017

Location

Loc Qty

Loc Code

GA

36

m135774

36

ST260a

700

m137820

700

ST263

696

m137587

696

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149DN832J

Purchased

No

110

Each

2,356.000

2

2

NAS1149DN832J

Washer

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST260a

2000

M137587

2000

ST264

356

M135297

356

NAS1515H4

Purchased

No

110

Each

119.0000

2

2

NAS1515H4

Washer

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

ST260

69

m129499

69

ST260a

50

m134497

50

MS21042L3

Purchased

No

110

Each

1,305.000

2

2

MS21042L3

Nut

**

DAS

6
9-89

AUG 01 2017

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

394

m134360

102

M136665

292

ST303

832

m137680

332

m137886

500

137988

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Friday, July 07, 2017 3:43:10 PM

Page 11

Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

1,727.000

7

7

MS21042L 4

**

DAS

Nut

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1000

m137680

1000

ST303

666

m137402

400

m137544

266

7

MS21042L5

Purchased

No

110

Each

709.0000

4

4

MS21042L 5

**

DAS

Nut

6

9-89

AUG 01 2017

Location

Loc Qty

Loc Code

GA

12

m127813

12

OVER007

200

m136866

0

m137963

200

ST303

497

m137587

497

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____				
Misidentified ☐	☐	Past Due ☐					

Picklist Print

Friday, July 07, 2017 3:43:10 PM

Page 12

Work Order ID: 163769

163769

Parent Item: D350-607-043A

D350-607-043A

Parent Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017

Required Date: 8/4/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

140

Each

1,727.000

5

5

MS21042L4

Nut

**

AUG 03 2017

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1000

~~m137680~~

1000

ST303

666

m137402

400

m137544

266

S

DAS
28
9-89

D2324

Manufactured

No

140

Each

15.0000

1

1

D2324

Strut Assembly

**

AUG 03 2017

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

ST367

15

133356

7

~~148905~~

4

150659

4

I

DAS
28
9-89

NAS1149D0463J

Purchased

No

140

Each

2,991.000

10

10

NAS1149D0463J

Washer

**

AUG 03 2017

DAS
6
9-89

DAS
26
9-89

Location

Loc Qty

Loc Code

GA

640

M135056

40

M137699

600

ST260a

1400

M137699

1400

ST263

951

M137371

951

10

DAS
28
9-89

Friday, July 07, 2017 3:43:10 PM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY					
Environment ☐		No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐		Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐		Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐		Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐		Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐		Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐		Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐		Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐		Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐		Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐		Manufacturing Process ☐	OTHER : _____					
Misidentified ☐		Past Due ☐						

DART SERVICE INSTRUCTION
TO AMEND INSTALLATION INSTRUCTIONS D350-607-1 REV. A AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-607 REV. 6
REF CANADIAN STC: SH94-14
REF FAA STC: SR00213NY
REF EASA STC: 10016996

1.0 PURPOSE

It has come to DART's attention that Installation Instructions D350-607-1 Rev. A and Instructions for Continued Airworthiness ICA-D350-607 Rev.6 were issued with incorrect bolt length information. The purpose of this DART Service Instruction (DSI) is to amend the following items:

- 1.1 Figures 2 and 3 of Installation Instructions D350-607-1 Rev. A;
- 1.2 Figures 25-1 and 25-2 of Instructions for Continued Airworthiness ICA-D350-607 Rev. 6
- 1.3 Parts lists of Installation Instructions D350-607-1 Rev. A and Instructions for Continued Airworthiness ICA-D350-607 Rev.6

2.0 CORRECTIONS TO THE FIGURES AND PARTS LISTS

- 2.1 Sheet 2 of this DSI amends Figures 2 of D350-607-1 Rev. A and 25-1 of ICA-D350-607 Rev. 6;
- 2.2 Sheet 3 of this DSI amends Figures 3 of D350-607-1 Rev. A and 25-2 of ICA-D350-607 Rev. 6;
- 2.3 Sheet 4 of this DSI amends the Parts Lists of Installation Instructions D350-607-1 Rev. A (Sections 6.1 and 6.2) and ICA-D350-607 Rev. 6 (Sections 25.27.1 and 25.27.2).

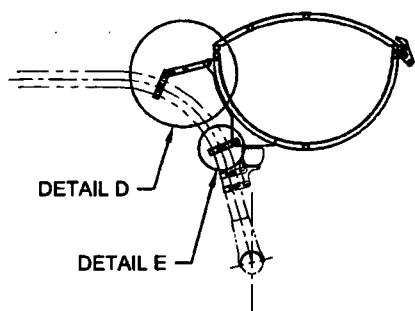
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RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 163769 

JUL 07 2017

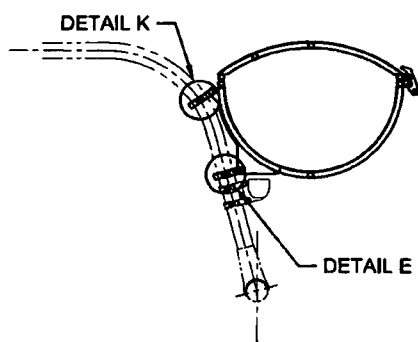
CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)
DATE: 14.09.25
CERT. NO.: SH94-14
ISSUE NO.: 6

A	NEW ISSUE	MB	14.09.25
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9709	SHEET 1 OF 4
APPROVED		TITLE	SCALE
DE APPR.		PARTS LIST CORRECTION	NTS
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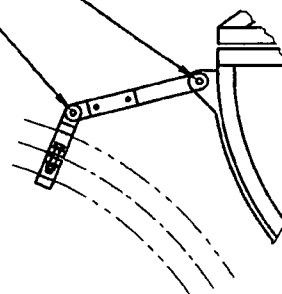
SECTION A-A FRONT TUBE



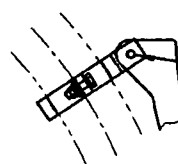
SECTION B-B REAR TUBE

IS: AN4-15A BOLT
WAS: AN4-12A BOLT

NO CHANGE

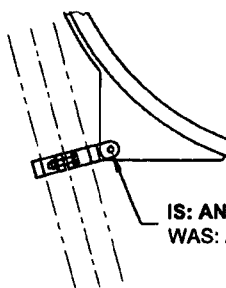


DETAIL D STRUT



IS: AN4-15A BOLT
WAS: AN4-12A BOLT

DETAIL K CLAMP



IS: AN4-15A BOLT
WAS: AN4-12A BOLT

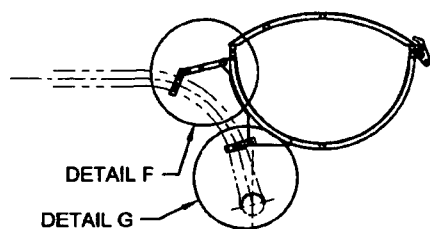
DETAIL E CLAMP

**FIGURE 1: CHANGES TO FIGURE 2 OF D350-607-1 REV. A
AND FIGURE 25-1 OF ICA-D350-607 REV. 6**

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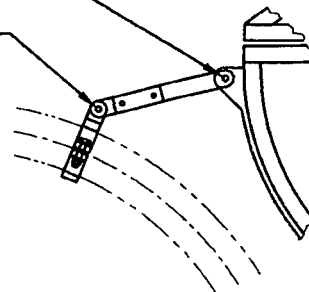
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MFG. APPR.	N/A	DSI 9709	SHEET 2 OF 4
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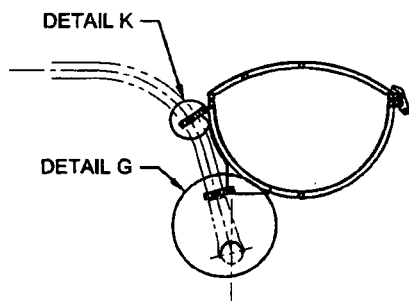
SECTION A-A FRONT TUBE

IS: AN4-15A BOLT
WAS: AN4-12A BOLT

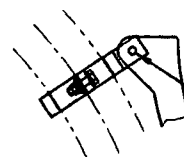
NO CHANGE



DETAIL F STRUT

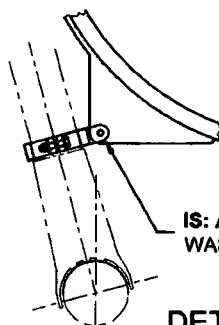


SECTION B-B REAR TUBE



IS: AN4-15A BOLT
WAS: AN4-12A BOLT

DETAIL K CLAMP



IS: AN4-15A BOLT
WAS: AN4-12A BOLT

DETAIL G CLAMP

FIGURE 2: CHANGES TO FIGURE 3 OF D350-607-1 REV. A
AND FIGURE 25-2 OF ICA-D350-607 REV. 6

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DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)
DATE: 14.09.25
CERT. NO.: SH94-14
ISSUE NO.: 6

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DE APPR.	<i>[Signature]</i>	PARTS LIST CORRECTION	NTS
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3.0 CORRECTIONS TO THE PARTS LISTS

IS:

- 6.1 D350-607-041/-041A/-043/-043A HELI-UTILITY-BASKET™ (D350-607-1)
 25.27.1 D350-607-041/-041A/-043/-043A HELI-UTILITY-BASKET™ (ICA-D350-607)

Qty -041	Qty -041A	Qty -043	Qty -043A	Qty -241	Part Number	Description
X					D350-607-041	HELI-UTILITY-BASKET
	X				D350-607-041A	HELI-UTILITY-BASKET
		X			D350-607-043	HELI-UTILITY-BASKET
			X		D350-607-043A	HELI-UTILITY-BASKET
1	1	1	1		AN4-12A	BOLT
4	4	4	4	8	AN4-15A	BOLT

- 6.2 D350-607-045/-045A/-047/-047A HELI-UTILITY-BASKET™ (D350-607-1)
 25.27.2 D350-607-045/-045A/-047/-047A HELI-UTILITY-BASKET™ (ICA-D350-607)

Qty -045	Qty -045A	Qty -047	Qty -047A	Qty -241	Part Number	Description
X					D350-607-045	HELI-UTILITY-BASKET
	X				D350-607-045A	HELI-UTILITY-BASKET
		X			D350-607-047	HELI-UTILITY-BASKET
			X		D350-607-047A	HELI-UTILITY-BASKET
1	1	1	1		AN4-12A	BOLT
4	4	4	4	8	AN4-15A	BOLT

WAS:

- 6.1 D350-607-041/-041A/-043/-043A HELI-UTILITY-BASKET™ (D350-607-1)
 25.27.1 D350-607-041/-041A/-043/-043A HELI-UTILITY-BASKET™ (ICA-D350-607)

Qty -041	Qty -041A	Qty -043	Qty -043A	Qty -241	Part Number	Description
X					D350-607-041	HELI-UTILITY-BASKET
	X				D350-607-041A	HELI-UTILITY-BASKET
		X			D350-607-043	HELI-UTILITY-BASKET
			X		D350-607-043A	HELI-UTILITY-BASKET
5	5	5	5		AN4-12A	BOLT
				8	AN4-15A	BOLT

- 6.2 D350-607-045/-045A/-047/-047A HELI-UTILITY-BASKET™ (D350-607-1)
 25.27.2 D350-607-045/-045A/-047/-047A HELI-UTILITY-BASKET™ (ICA-D350-607)

Qty -045	Qty -045A	Qty -047	Qty -047A	Qty -241	Part Number	Description
X					D350-607-045	HELI-UTILITY-BASKET
	X				D350-607-045A	HELI-UTILITY-BASKET
		X			D350-607-047	HELI-UTILITY-BASKET
			X		D350-607-047A	HELI-UTILITY-BASKET
5	5	5	5		AN4-12A	BOLT
				8	AN4-15A	BOLT

CANADA
 DEPARTMENT OF TRANSPORT
 AIRCRAFT CERTIFICATION
 BRANCH
 DAO # 01-O-01

APPROVED
 BY: 
 D. SHEPHERD (DE # 02)
 DATE: 14.09.25
 CERT. NO.: SH94-14
 ISSUE NO.: 6

DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9709	SHEET 4 OF 4
APPROVED		TITLE	SCALE
DE APPR.		PARTS LIST CORRECTION	NTS
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163769

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: Heli-Utility-Basket™ (Automatic Lid Opener)

Start Date: 7/25/2017 **Start Qty:** 1.00

* 1 *

Cust Item ID:

Required Date: 8/4/2017 **Req'd Qty:** 1.00

*** 1 ***

Customer:

Reference:

Run Start *NR1*

Approvals:

Process Plan:

Date: JUL 07 2017 Tooling:

Date:

Stop *NB2*

QC:

Date: _____ **SPC (Y/N):** _____

Date:

[illegible]



Transport Canada

Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH94-14

Issue No.: 7

Approval Date: May 20, 1994

Issue Date: April 29, 2015

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

Airbus Helicopters AS 350 B, B1, B2, B3, BA, D; AS 355 E, F, F1, F2, N, NP; EC 130 B4 and T2.

Canadian Type Certificate or Equivalent:

H-83 (AS 350 Series, EC 130 B4 and T2)
H-87 (AS 355 Series)

Description of Type Design Change:

Heli-Utility Basket and Long Cargo Tube Installation

**Installation/Operating Data,
Required Equipment and Limitations:**

AS 350/355 models

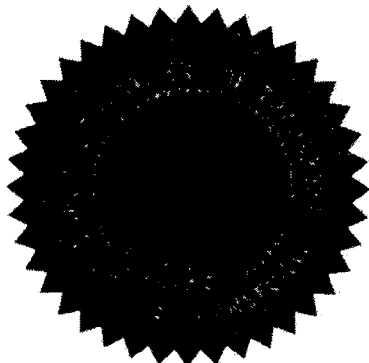
Installation of the Heli-Utility Basket and Long Cargo Tube kits must be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Ltd. D350-607 Revision J, dated December 6, 2013 or later TCCA approved revision.

Maintenance of the Heli-Utility Basket and Long Cargo Tube kits must be in accordance with TCCA accepted Dart Aerospace Ltd. ICA-D350-607 Revision 5, dated December 2, 2013 or later TCCA accepted revision.

Operation of the Heli-Utility Basket and Long Cargo Tube kits on AS 350 models must be in accordance with TCCA approved Dart Aerospace Ltd. Flight Manual Supplement FMS-D350-607 Revision G, dated December 6, 2013 or later TCCA approved revision.

Operation of the Heli-Utility Basket and Long Cargo Tube kits on AS 355 models must be in accordance with TCCA approved Dart Aerospace Ltd. Flight Manual Supplement FMS-D355-607 Revision G, dated December 6, 2013 or later TCCA approved revision.

- See Continuation Sheet -



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Scott W. Wales
For Minister of Transport

Canada